

MAY 2 1933

Form 504 Ed. June, 1928
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
, Director
,
State: Alaska
DESCRIPTIVE REPORT
52628
Tanugamphik Sheet No. 5A-5B Hydrographic 5262h
Hydrographic 5252b
LOCALITY
Resurrection Bay
Seward
19: 32
CHIEF OF PARTY
H. B. Campbell

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 5A-55

REGISTER NO. 52628

StateXXXX Alaska
General locality REMEMENTAL Kensi Peninsula
Locality REVERSE N.W. Portion of Resurrection Bay
Scale 1/5,000 Date of survey Sept -October , 1932
Vessel Str. DISCOVERER
Chief of Party H. B. Campbell
Surveyed by R.J.Sipe, H.J.Healy, G.A.Nelson, J.N.Jones
Protracted byE.E. Smith
Soundings penciled byG. A. Nelson, H. F. Garber
Soundings in fathoms from
Plane of reference
Subdivision of wire dragged areas by
Inked by 7.8./Luly
Verified by 78/Celly
Instructions dated, 19 32
Remarks:

U M. GOVERNMENT PRINTING OFFICE

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 5B REGISTER NO. 5262h State Alaska General locality Kenai Peninsula Locality N. E. Portion of Resurrection Bay Scale 1:5,000 Date of survey Sept. - Oct. 1932 ,192 Vessel Discoverer Chief of Party H. B. Campbell Surveyed by R.J.Sipe, H.J.Healy, G.A.Nelson, J.N.Jones Protracted by E.E.Smith Soundings penciled by G.A.Nelson, H.F.Garber Soundings in fathoms Xaax Plane of reference MILW Subdivision of wire dragged areas by..... Inked by Verified by..... Instructions dated______,192 Remarks:

applie & Cl 8528- Dec- 934. DVD. Souble

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC FIELD SHEET #5A-5B

U.S.C.& G.S.S. DISCOVERER

H. B. Campbell, Comdg.

Scale 1/5,000

Season 1932.

AUTHORITY

The survey was under the Director's Instructions dated April 21, 1932.

METHOD OF SURVEY

Motor sailers were used entirely in making this survey. The hand lead was used in general to a depth of twelve fathoms, and a wire sounding machine for greater depths. The hand lead was checked at the beginning and close of each day. The registering sheave was checked at the beginning and close of the season and found correct.

EXTENT OF SURVEY

This survey comprises the head of Resurrection Bay. It extends from the low waterlline, to offshore unchangeable areas which was taken as the twenty fathom curve. Particular attention was paid to the area alongside and adjacent to the wharves.

WHARVES AND ANCHORAGES

Anchorage may be had in twenty fathoms, mud bottom, 250 meters, NNE Magnetic (60°True) from the center of the San Juan Fisheries Dock.

A breakwater has been built about 200 meters north of the San Juan Fisheries Dock, which provides shelter for small craft, which was dredged to a controlling depth of 2-1/2 fathoms at MILW. The end of the breakwater is marked by a fixed green light, (Signal Aid).

The following wharves were sounded for controlling depths:

Wherf	Controlling Depth at MLLW.
San Juan Fisheries Dock	25 feet
Alaska Railroad Dock	30 °
Local Cannery Dock	4 "
Standard Oil Dock	34 "
above depth	to be verified in office

STATISTICS

(See attached sheet for statistics.)

Report written by Ser. Helson. Respectfully submit of Respectfully submit of

STATISTICS

HYDROGRAPHIC	
SHEET # 5A	52628

						- u	
Vessel	Date	Day	No. Pos.	No. o	f Sdgs. Wire	Stat. M H. L.	iles Sdgs. Wire
S.M.S.	8/16/32	8.	131	398	57	6.2	. 1.0
n	9/6/32	ъ	204	419	124	9.8	1.7
n	9/7/32	G .	216	291	213	6 .7	5 .0
n	10/5/32	đ	122	367	171	3.0	5.0
Total			673	1475	5 65	25.7	12.7
			SE	EET #B	526	2b	
S.M.S.	10/3/32	a	141	523	112	9.3	3.9
¥t	10/4/32	ъ	137	289	188	4.9	4.9
Total			278	812	300	14.2	8.8

Area, square statute miles -----Sheet 5A ---- 1.0

APPROVAL

by

CHIEF OF PARTY

The field work and the accompanying records and sheets
were done under my supervision. No further work is considered
necessary in this area.

The advisability of recommending
achorage in 25 fm sundway between
the San Juan dock and the power
house discharge.

Respectfully forwarded:

ABCampbell.
H. B. Campbell.

Chief of Party.

May 11, 1933

Division of Hydrography and Topography:

/ Division of Charts:

Tide Reducers are approved in 3 volumes of sounding records for

> 5262 a HYDROGRAPHIC SHEET

Seward Harbor, Ressurection Bay, S. W. Alaska Locality

Chief of Party: H. B. Campbell in 1932 Plane of reference is mean lower low water, reading 2.6 ft. on tide staff at Seward 14.9 ft. below B. M. 1 a Height of mean higher high water above plane of reference is 10.6 feet.

Condition of records satisfactory except as checked below:

- 1. Locality and sublocality of survey omitted.
- 2. Month and day of month omitted.
- 3. Time meridian not given at beginning of day's work.
- 4. Time (whether A.M. or P.M.) not given at beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
- 6. Leadline correction entered in wrong column.
- 7. Field reductions entered in "Office" column.
- 8. Location of tide gauge not given at beginning of day's work.
- 9. Leadline corrections not clearly stated.
- 10. Kind of sounding tube used not stated.
- 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks.

Action of Tides and Currents.

May 11, 1933

Division of Hydrography and Topography:

/ Division of Charts:

Tide Reducers are approved in 2 volumes of sounding records for

> 5262 b HYDROGRAPHIC SHEET

Seward Harbor, Resurrection Bay, S. W. Alaska Locality

Chief of Party: H. B. Campbell in 1932 mean lower low water, reading Plane of reference is 2.6 ft. on tide staff at Seward 14.9 ft. below B. M. 1 a

Height of mean higher high water above plane of reference is 10.6 ft.

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.

2. Month and day of month omitted.

3. Time meridian not given at beginning of day's work.

- 4. Time (whether A.M. or P.M.) not given at beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
- 6. Leadline correction entered in wrong column.
- 7. Field reductions entered in "Office" column.
- 8. Location of tide gauge not given at beginning of day's work.
- 9. Leadline corrections not clearly stated.
- 10. Kind of sounding tube used not stated.
- 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks.

At Chief, Division of Tides and Currents.

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 5262.4

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	6.73
Number of positions checked	54
Number of positions revised	10
Number of soundings recorded	2040
Number of soundings revised	.52
Number of signals erroneously	
plotted or transferred	2

Data:	Se	stenle	.1.19	33		
pave.	•••••	1.	R	Kell	_	
Cartos	grapher:	Frai	icus D		• • • • • • •	•••••

HYDROGRAPHIC SHEET No. 5262 b

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	2.7.8
Number of positions checked	33
Number of positions revised	8
	11.12
Number of soundings recorded	4
Number of soundings revised	* * * * *
Number of signals erroneously	V
plotted or transferred	• • • • •

n 4	Aug.	28,	1933			
Date:	6		· m	11104	Envi	īch
Cartogra	pher:	alexi	٠			y (e)

Section of Frield Records Repart on Hyd. Sheet H-5262a h. W. Partine of Resurrection Boy Kenai Perimonen, alanka

Chief of Parts - N. B. Comphell Surveyed by - R.J. Sipe, H.J. Neary, M.a. helson t, J. h. Jones Protrocted by - d. l. Smith Adg. Jenillad by G.a helson + H.F. Sarbas Sdep. venfield + mital by F. D. Kelley

1. The records conform to the General Instructions, exceptions: no indication of low close to docks the first line of soundings was taken. no cuts were taken to establish The position of O Come which appears on the Boat theet of movie Sheet but not on the to ropographic sheet Boat pleet as "Endy Dock a. I.S.

2. The plan and Character of development satisfy fulfill The requirements of the General distructions: Exception: If the 10 farium shool off Sta O Frey is carretty located which is 3. The plan and extent of the development satisfy the Specific dists.

4. There were no sounding line crossings, except in The besin hout y to breakwater.

5. The would depth curve can be almost completely drawn 1. 0,1,2,63 forhom curves are plant in some vislane spots.

6. The field platting was completed except that the soundings alongoide the various days were not platted ale resident drew to docks to a large scale (1:2000) & platter the

office T, some of the field drafting had to be done one in the field due to erroneous platting of fixes, wrong spacing of soundings the to completely ignoring time intervals recorded, The practions used, conformed

quite a few cases in general to the High-manual, except that in quite a few cases S feet was welled the lower fathour instead of the higher. The eroneous transferral of signals o'Cli voax from The ropo Sheet T-4733 coursel the improper placing of two fixes.

F. The Junctions will adjoining sheets are poor showing differences of hom 1 to 10 fathous

9, Dignola were so pouly chosen that transle was constantly experienced both in the field + while platting the smooth sheet. The signale closen not only sounded aligh but when written looked alike,

These is no authority for the location of O Com except to Door Shut,

Signel & Kam on T-4733 was transferred to it Bout sheet + The Smooth that as a Ram

Sounding lines off a Sand aline descrepancies. Soundings in aren 60.06' 40" + 149° 25' 45" are doubtful.

The 10 farton shoul off O Frey on R. R. black is probably in error. The substitution of O Frey for O Com as at center object is succentral (Fix 67 L) Ale lacation of the Red hum Biggons was toplan from T-4733. Rating y work - Pour

Francis B. Kelly Sept 1, 1937

Section of Field Records

Report on Hydrographic Sheet No. 5262 = chief of Party H.B. Campbell Surveyed by R.J. Sipe,
H.J. Healy, G.A. Nelson, J.N. Jones Protracted by E.E. Smith Soundings Plotted by G.A. Verified and inked by A.M. Uzefovich Nelson, H.F. Garber

- 1. The records conform to the requirements of the General Instructions.
- 2. Depth curves are completely drawn.
- 3. The field plotting was completed to the extent prescribed in General Instructions
- 4, The office draftsman did not have to do over any part of the drafting done by the field party.
- 5. The junction with adjacent sheet H 5262 à is satisfactory.
- 6. Remarks: The Red Nun buoy on the left hand side of the sheet Fransferred From T-4732. The quality of the work is good.

Respectfully submitted alexis M. Weforich Aug. 28, 1933

SECTION OF FIELD RECORDS

Report on H. 5262 a and b.
Resurrection Bay, Alaska.
Surveyed in 1932
Instructions dated April 21, 1932 (Discoverer)

Chief of Party - H. B. Campbell.
Surveyed by - Various Officers.
Protracted by - E. E. Smith.
Soundings plotted by - G. A. Nelson and H. F. Garber.
Verified and inked by - F. B. Kelly (5262a); A. M. Uzefovich (5262b).

1. Records.

The records conform to the requirements of the Hydrographic Manual with the following exceptions:

- a. In the "stop" soundings it was impossible to tell what the actual running time was. It is frequently of material interest to know the actual distance covered in a given interval of time, and while it is not recommended that the sounding records contain such information as the time when the launch got underway, the time when she was running at full speed, the time when the engine was stopped, and the time when the sounding was taken, it would be very helpful in many cases if the descriptive report contained a statement as to the general procedure followed in such cases.
- b. Where a large number of signals are established close together along a featureless shore, it would appear that each one should be characteristically marked and the boat sheet should contain brief descriptions of such signals to enable the hydrographer to quickly identify them. This is particularly necessary where lines are run parallel to the shore, since they do not always begin and end in close proximity to the signals and hence make for uncertainty in their identification.
- c. The use of similar sounding names, such as, "Tem" and "Ram", "Oat" and "Eat", "Zeb" and "Feb", (see H. 5262a) for signals close together is always objectionable and generally leads to confusion both in the field and in the office.

2. Specific Instructions.

The work is in conformity with the specific instructions both as to scale and extent.

3. Depth Curves.

With the exception of several small sketches close inshore, the usual depth curves can be completely drawn.

4. Comparisons with Previous Surveys.

A comparison has been made between H. 5262a and H. 4678 (surveyed in 1927)

H. 5262 a and b. - 2.

and it was found that in the deeper areas northward of L at. 60°05'.30 the present survey is from 1 to 8 fathoms shoaler than the 1927 survey, while in the vicinity of Lowell Pt. the agreement is generally good. No explanation could be advanced for these differences. The sounding machine was used on both surveys. It is not believed that any such radical changes have taken place in the deeper areas between the dates of the last two surveys. This view is substantiated by the very fine agreement between the 1905 survey (H. 2761) and the present surveys (H. 6262, a and b). Since the 1927 survey (H. 4678) shows numerous soundings deeper than either the 1905 or the 1932 surveys, the probable explanation is that the machine soundings on the 1927 survey were not always truly vertical. It is therefore recommended that for charting purposes the present survey (H. 5262a) supersede that part of the 1927 survey (H. 4678) that lies northward of lat. 60°05'.30" and that for the area outside the limits of the present survey, the soundings from H. 2761 (survey of 1905) be used.

To the southward of lat. 60°05'.30" there is a general good agreement between the two 1927 surveys H. 4678 and H. 4827 as well as with the 1905 survey (H. 2761). In compiling the chart in this area, soundings from these various sources may be used as needed.

5. Field drafting.

The usual amount of field drafting was accomplished but was found defective in that on H. 5262a a number of 3 point fixes were erroneously plotted, two signals Chi and Ax were erroneously transferred from the topographic sheet and that a number of soundings were erroneously spaced due to ignoring of the irregular time intervals in the plotting.

6. Additional Work.

No additional work is recommended within the area covered by this survey (H. 5262a and b).

7. Reviewed by A. L. Shalowitz, September, 1933.

Examined and approved:

Chief. Field Records Section.

Chine Biold Work Section.

Chief, H. & T. Division.

applied to insert on CM 8529 - Oct 1940 Ox S.D.

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